

3. How many types of telophase II products can be formed if a homozygote (AA or aa) is under study? (A and a are alleles located in a corresponding locus in a pair of homologous chromosomes.)
4. How many types of telophase II products can be formed if a heterozygote (Aa) is under study?

1. How many kinds of gametes can be formed if the organism's genotype is AABB? Make a drawing of this type of cell in Prophase I. Label genes in chromosomes.
2. How many kinds of gametes can be formed if the organism is heterozygous (AaBb) for both pairs of genes under study? Make a drawing of such a cell in Prophase I (zygotene). Label genes in chromosomes.
3. How does each one of the telophase II products (one of the four cells in the tetrad) compare with the prophase I cell with regard to chromosome number?